TKHD series



Inner

heights

Inner widths 100 800

TKHD series Overview



- 1 Aluminum stays available in 1 mm width sections
- 2 Plastic chain link plates
- 3 Quick and easy opening to the inside or outside for cable laying
- Cable-friendly interior - no interfering edges
- 5 Fixable dividers
- 6 Dividers and subdivision for separating the cables
- Replaceable glide shoes for increased service life in gliding application
- 8 Robust, multiple stop system
- 9 Steel installation brackets
- 10 RSC-system with external role
- 11 With integrated roll for standard quide channels

Features

- Massive, enclosed, stain-repellend stop system
- Massive sidebands through robust double fork-bracket-construction
- Sidebands easy to assemble
- Reinforced pin bore connection
- Integrated noise damping
- Quick and easy opening to the inside or outside for cable laying
- Soil-resistant outer contour
- Easy change of components



Variable vertical and horizontal inner distribution optional with fixable dividers



Suitable also for rollermounted application (RSC)

- Maintenance-free
- Symmetrical force curve in the sideband
- Quiet and low-wear operating through polygonoptimized contour and radii
- Reduce drive power through less friction





















Replaceable glide shoes for longer service life in gliding applications



Roller chain for travel distances up to 800 m

Key for abbreviations on page 62

Design guidelines from page 16

Technical support: technik@kabelschlepp.de

online-engineer.de cable Carrier Configurator

Туре	Opening variant	Stay variant	h _i [mm]	h _G [mm]	B _i [mm]	$B_{\mathbf{k}}$ [mm]	B _i - grid [mm]	$\begin{matrix} t \\ [mm] \end{matrix}$	KR [mm]	Additional load ≤ [kg/m]	Cable- d _{max} [mm]
TKHD90											
		RMF	87	117	100-800	170 – 870	1	91	250 – 500	100	69
XX											
TKHD90-R											
		RMF	87	117	100 – 800	170 – 870	1	91	250 – 500	60	69
A											

TKHD series | Overview

	nsupporte rangeme			ding/Rolli rangeme			Inner dis	tribution		Installation variants			Page
$\begin{array}{c} \textbf{Travel} \\ \textbf{length} \\ \leq [m] \end{array}$	v _{max} ≤ [m/s]	a _{max} ≤ [m/s²]	$\begin{array}{c} \textbf{Travel} \\ \textbf{length} \\ \leq [m] \end{array}$	v _{max} ≤ [m/s]	a_{max} ≤ [m/s²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
			←					H		vertica or	ΞĀ	arra	
13.5	5	2.5	200	8	20	•	•	-	-	•	-	-	388
								-					
-	-	-	800	10	50	•	•	-	-	-	-	-	394
								-					

Key for abbreviations on page 62

Design guidelines from page 16

technik@kabelschlepp.de Technical support:

online-engineer.de

FKHD9



Pitch 91 mm



Inner height 87 mm



Inner widths 100 - 800 mm



Bending radii 250 - 500 mm

Stay variants



Aluminum stay RMF.....page 388

Frame stay, solid

- Aluminum profile bars for heavy loads and large cable carrier widths. Easy threaded connection.
- Inside/outside: Threaded joint easy to release.



TOTALTRAX® complete systems

Benefit from the advantages of the TOTALTRAX® complete system. A complete delivery from one source – with a warranty certificate on request! Learn more at tsubaki-kabelschlepp.com

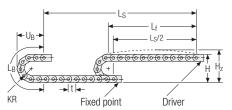


TRAXLINE® cables for cable carriers

Hi-flex electric cables which were specially developed, optimised and tested for use in cable carriers can be found at traxline.de.

TKHD90 | Installation dim. | Unsupported · Gliding

Unsupported arrangement



KR		Hz	LB	U_{B}
[mm] [r	nm] [r	nm] [mm]	[mm]
250	680	860	965	510
310	800	980 1	1154	570
360	900 1	080 1	1311	620
500 1	180 1	360 1	1751	680

Inner heights



Inner widths



subaki-kabelschlepp.com/tkhd

Load diagram for unsupported length depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight $q_k = 10 \text{ kg/m}$. For other inner widths, the maximum additional load changes.



Speed up to 5 m/s

Travel length

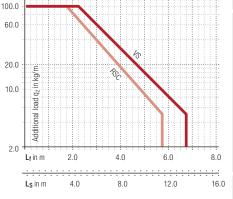
up to 13.5 m



Acceleration up to 2.5 m/s²



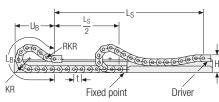
Additional load up to 100 kg/m



Pre-tensioning of the cable carrier for unsupported arrangement, maximum H₇ dimension.

Decreased pre-tensioning of the cable carrier for RSC (rolling system) application, reduced Hz dimension.

Gliding arrangement | GO module with chain links optimized for gliding



KR [mm]	H [mm]	n _{RKR}	L _B [mm]	U _B [mm]	q z max [kg/m]
250	351	6	2420	1090	100
310	351	6	2780	1208	100
360	351	6	3230	1380	90
500	351	6	4400	1820	75



Speed up to 20 m/s



Acceleration up to 8 m/s²



The gliding cable carrier must be guided in a channel. See p. 732. The GO module mounted on the driver is a defined



Travel length up to 200 m



Additional load up to 100 kg/m sequence of 6 adapted KR/RKR link plates. Glide shoes must be used for gliding applications.



Our technical support can provide help for gliding arrangements: technik@kabelschlepp.de

Key for abbreviations

on page 62

TKHD90 RMF | Dimensions · Technical data

Aluminum stay RMF -

frame stay solid

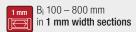
Aluminum profile bars for heavy loads and large cable carrier widths. Easy threaded connection.

- Available customized in 1 mm grid.
- Inside/outside: Threaded joint easy to release



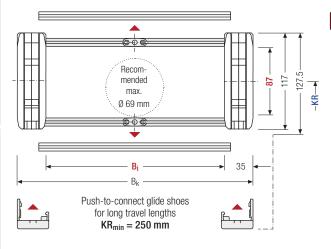


Stay arrangement on each chain link (VS: fully-stayed)



Design guidelines from page 16

Technical support:



The maximum cable diameter strongly depends on the bending radius and the desired cable type. Please contact us.

Calculating the cable carrier length

Cable carrier length Lk

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length Lk rounded to pitch t

technik@kabelschlepp.de

h _i [mm]	h _G [mm]	h _{Gʻ} [mm]	B _i [mm]*	B _k [mm]		K [m	(R nm]		q_k [kg/m]
87	117	127,5	100 – 800	B _i + 70	200	310	360	500	10.37 – 17.47

^{*} in 1 mm width sections

Order example



TKHD90
Type











online-engineer.de

TKHD90 RMF | Inner distribution | TS0 · TS1

Divider systems

As a standard, the divider system is mounted on every 2nd chain link on the center bracket.

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (version A).

For applications with lateral acceleration and free hanging on the side, the dividers can be attached by simple insertion of a fixing profile into the RMF stay, available as an accessory (version B).

Inner heights



Inner widths



Increments

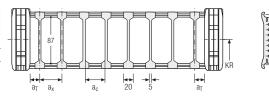


:subaki-kabelschlepp.com/tkhd

Divider system TS0 without height separation

Vers.				a _{x Raster} [mm]	n _T min
Α	10	20	15	-	-
В	12.5	20	15	5	-

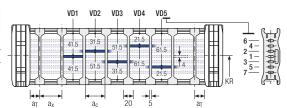
The dividers can be moved within the cross section (version A) or fixed (version B).

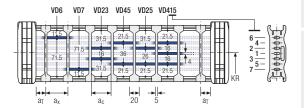


Divider system TS1 with continuous height separation

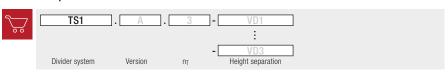
Vers.				a _{x Raster} [mm]	n _T min
Α	10	20	15	-	2
В	12.5	20	15	5	2

The dividers can be moved within the cross section (version A) or fixed (version B).





Order example



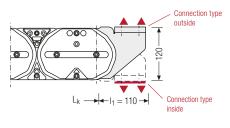
Please state the designation of the divider system (TS0, TS1,...), the version, and the number of dividers per cross section [n-1.

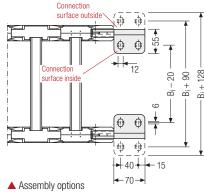
When using divider systems with height separation (TS1), please additionally state the position (e.g. VD1) viewed from the left driver belt. You are welcome to add a sketch to your order.

TKHD90 | End connectors

End connectors - steel short

The connection variants on the fixed point and on the driver an be combined and changed later on, if necessary.





Connection point

F - fixed point M - driver

Connection surface

connection surface inside

A – connection surface outside

Connection type

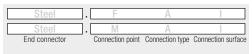
A – threaded joint to outside (standard)

I – threaded joint to inside



Order example





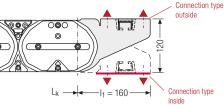


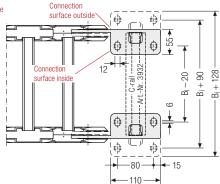
We recommend the use of strain reliefs before driver and fixed point. See from p. 794.

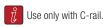
TKHD90 | End connectors

End connectors LF - steel long

The connection variants on the fixed point and on the driver an be combined and changed later on, if necessary.







Assembly options

Connection point

F - fixed point M - driver

Connection surface

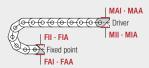
connection surface inside

A – connection surface outside

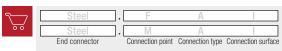
Connection type

A – threaded joint to outside (standard)

I – threaded joint to inside



Order example



More product information online



Assembly instructions etc.: Additional info via your smartphone or check online at tsubaki-kabelschlepp.com/ support



Configure your custom cable carrier here: onlineengineer.de

Inner heights



Inner widths



subaki-kabelschlepp.com/tkhd

FKHD90-R

Heavy-duty cable carrier with integrated roller



Pitch 90 mm



Inner height 87 mm



Inner widths 100 - 800 mm



Bending radii 250 - 500 mm

Stainless steel ball bearings with application-specific lubrication and plastic rollers ensure quiet and smooth

- suitable for all long travel applications
- lower drive power required
- quiet and low-vibration operation
- space-saving and cost-optimized
- long service life low maintenance
- easy access to rollers
- minimized loads on cable carrier and cables

operation. Integrated, wear-free damping systems minimize the mechanical load for the entire system.

- low push and pull forces
- high travel speed and acceleration
- large additional loads possible
- using proved standard cable carriers
- retrofit of existing systems
- exchange other makes up to 100 %
- integration of existing guide channels

Stay variants



Aluminum stay RMF.....page 394

Frame stay, solid

- Aluminum profile bars for heavy loads and large cable carrier widths. Easy threaded connection.
- Inside/outside: Threaded joint easy to release.

Inner heights

Inner widths

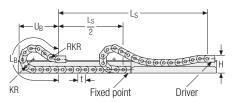
100

800

tsubaki-kabelschlepp.com/tkhd

Rolling arrangement | Cable carrierwith integrated roller

TKHD90-R | Installation dim. | Unsupported · Rolling



KR [mm]	H [mm]	n _{RKR}	L _B [mm]	U _B [mm]	q z max [kg/m]
250	351	6	2420	1090	100
310	351	6	2780	1208	100
360	351	6	3230	1380	90
500	351	6	4400	1820	75



Speed up to 10 m/s



The rolling cable carrier must be guided in a channel. See p. 732.



Travel length up to 800 m



The GO module mounted on the driver is a defined sequence of 6 adapted KR/RKR link plates.



Our technical support can provide help for rolling arrangements: technik@kabelschlepp.de



Key for abbreviations

on page 62

TKHD90-R RMF | Dimensions · Technical data

Aluminum stay RMF -

frame stay solid

Aluminum profile bars for heavy loads and large cable carrier widths. Easy threaded connection.

- Available customized in 1 mm grid.
- Inside/outside: Threaded joint easy to release



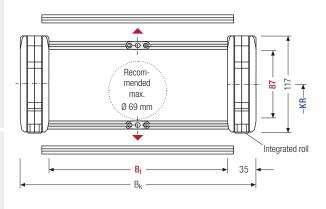


Stay arrangement on each chain link (VS: fully-stayed)



Design guidelines from page 16

epp.dde



The maximum cable diameter strongly depends on the bending radius and the desired cable type. Please contact us.

Calculating the cable carrier length

Cable carrier length Lk

$$L_{k} \approx \frac{L_{S}}{2} + L_{B}$$

Cable carrier length Lk rounded to pitch t

\preceq	$\overline{}$
⇌	~
≠	~
ヹ	
,,	a
₹	p
۲	7
≝	-32
=	$\overline{\sim}$
=	(0)
5 15	\sim
ט	=
_	\Box
	4
	~
	~
	⋍
	-

h	i	h _G	B _i	B _k	KR				q_k			
[m	m]	[mm]	[mm]*	[mm]	[mm]				[kg/m]			
8	7	117	100 – 800	B _i + 70	250		310		360	ĺ	500	10.37 - 17.47

* in 1 mm width sections ** When using this KR please contact our technical support.

Order example



TKHD90-R	٦.	400
Туре		B _i [mm]







online-engineer.de

TKHD90-R RMF | Inner distribution | TS0 · TS1

Divider systems

As a standard, the divider system is mounted on every 2nd chain link on the center bracket.

As a standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (version A).

For applications with lateral acceleration and free hanging on the side, the dividers can be attached by simple insertion of a fixing profile into the RMF stay, available as an accessory (version B).

Inner heights



Inner widths



Increments

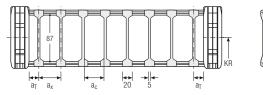


:subaki-kabelschlepp.com/tkhd

Divider system TS0 without height separation

Vers.				a _{x Raster} [mm]	n _T min
Α	10	20	15	-	-
В	12.5	20	15	5	_

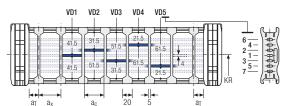
The dividers can be moved within the cross section (version A) or fixed (version B).

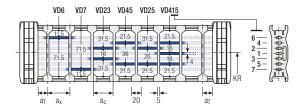


Divider system TS1 with continuous height separation

Vers.				a _{x Raster} [mm]	n _T min
Α	10	20	15	-	2
В	12.5	20	15	5	2

The dividers can be moved within the cross section (version A) or fixed (version B).





Order example



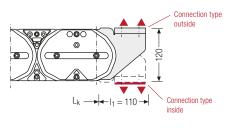
Please state the designation of the divider system (TS0, TS1,...), the version, and the number of dividers per cross section [n-1.

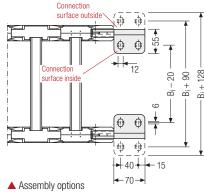
When using divider systems with height separation (TS1), please additionally state the position (e.g. VD1) viewed from the left driver belt. You are welcome to add a sketch to your order.

TKHD90-R | End connectors

End connectors - steel short

The connection variants on the fixed point and on the driver an be combined and changed later on, if necessary.





Connection point

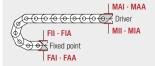
F - fixed point M - driver

Connection surface

- connection surface inside
- A connection surface outside

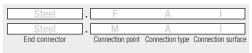
Connection type

- A threaded joint to outside (standard)
- I threaded joint to inside



Order example





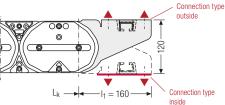


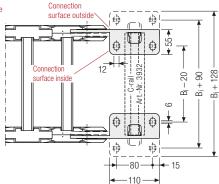
We recommend the use of strain reliefs before driver and fixed point. See from p. 794.

TKHD90-R | End connectors

End connectors LF - steel long

The connection variants on the fixed point and on the driver an be combined and changed later on, if necessary.





Use only with C-rail.

Assembly options

Connection point

F - fixed point M - driver

Connection surface

- connection surface inside
- A connection surface outside

Connection type

- A threaded joint to outside (standard)
- I threaded joint to inside



Order example



More product information online



Assembly instructions etc.: Additional info via your smartphone or check online at tsubaki-kabelschlepp.com/ support



Configure your custom cable carrier here: onlineengineer.de



Inner widths



subaki-kabelschlepp.com/tkhd